

Serial No. 10/091,912

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Listing of Claims:

1. (Currently amended) A cutinase variant ~~consisting essentially of~~ containing a substitution of the residue position corresponding to site 192 of the *Pseudomonas mendocina* cutinase set forth in SEQ ID NO:2, and wherein said variant has increased polyesterase activity and/or enhanced thermostability, as compared to wild-type *Pseudomonas mendocina* cutinase.

Claims 2-18. (Cancelled)

19. (Currently amended) The cutinase of claim 1, wherein said variant ~~comprises the substitution~~ substitution is [I:] Met at position 192, and wherein said variant further comprising contains the substitutions of Val at position 194, and Gly at position 219.

Claims 20-27. (Cancelled)

28. (Currently amended) A cutinase variant ~~consisting essentially of~~ containing a substitution of the residue position corresponding to site 192, of the *Pseudomonas mendocina* cutinase set forth in SEQ ID NO:2, wherein said variant is more thermostable than wild-type *P. mendocina* cutinase, and wherein said cutinase variant has hydrolytic activity on polyester.

29. (Cancelled)

30. (Currently amended) The cutinase variant of claim 28, wherein said variant further ~~comprises~~ contains a substitution of the amino acid residue at position 219 of *Pseudomonas mendocina* cutinase SEQ ID NO:2.

31. (Currently amended) The cutinase variant of claim 1, wherein said variant further ~~comprises~~ contains a substitution of the amino acid residue at position 219 of *Pseudomonas mendocina* cutinase SEQ ID NO: 2.

32. (Cancelled)

33. (Currently amended) The cutinase variant of claim ~~30~~ 19, wherein the residue at ~~position 194~~ position 194 is substituted with Ala, His, Lys, Leu, Asn, Pro or Gly, and said residue at position 219 is substituted with Gly.

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34. (Currently amended) The cutinase variant of claim 1, wherein said variant ~~comprises~~ contains a substitution of the residue at ~~position 194~~ position 194 with one of Ala or His, and a substitution at 219 with Gly.
35. (Currently amended) The cutinase variant of claim 1, wherein said variant ~~comprises~~ contains a substitution at position 194 with Ile.
36. (Currently amended) The cutinase variant of claim 1, wherein said variant ~~comprises~~ contains a substitution at position 194 with Lys or Leu and substitution at position 219 with Gly.
37. (Currently amended) The cutinase variant of claim 1, wherein said variant ~~comprises~~ contains the substitution of Asn at position 194.
38. (Currently amended) The cutinase variant of claim 1, wherein said variant ~~comprises~~ contains the substitution of the residue at position 194 with Asn, Pro, or Ser, and substitution of the residue at position 219 with Gly.
39. (Currently amended) A cutinase variant containing ~~consisting essentially of a~~ substitution of the residue position corresponding to site 194, of the *Pseudomonas mendocina* cutinase set forth in SEQ ID NO:2, and wherein said variant has increased polyesterase activity and/or enhanced thermostability, as compared to wild-type *Pseudomonas mendocina* cutinase.
40. (Currently amended) The cutinase variant of claim 39, wherein said variant ~~further comprises the substitutions~~ substitution is of Met at position 192, and wherein said variant further contains the substitutions Val at position 194, and Ser at position 219.
41. (Currently amended) The cutinase variant of claim 39, wherein said variant ~~comprises a substitution of the residue at position 194~~ is substituted with Ile, Leu, Asn, or Pro.
42. (Currently amended) A cutinase variant ~~consisting essentially of a~~ containing a substitution of the residue position corresponding to site 194 of the *Pseudomonas mendocina* cutinase set forth in SEQ ID NO:2, and wherein said variant is more thermostable than wild-type *P. mendocina* cutinase, and wherein said cutinase variant has hydrolytic activity on polyester.

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43. (Currently amended) The cutinase variant of claim 42, wherein said variant further ~~comprises~~ contains a substitution of the amino acid residue at position 219 of *Pseudomonas mendocina* cutinase SEQ ID NO:2.
44. (Currently amended) The cutinase variant of claim 39, wherein said cutinase variant further ~~comprises~~ contains a substitution of the amino acid residue at position 219 of *Pseudomonas mendocina* cutinase SEQ ID NO:2.
45. (Currently amended) The cutinase variant of claim 43, wherein said residue at ~~position 194~~ position 194 is substituted with Ala, His, Lys, Leu, Asn, Pro or ~~Gly~~ Ser, and said residue at position 219 is substituted with Gly.
46. (Currently amended) The cutinase variant of claim 39, wherein said variant comprises a substitution of the residue at ~~position 194~~ position 194 with Ala or His, and substitution at position 219 with Gly.
47. (Currently amended) The cutinase variant of claim 39, wherein said variant ~~comprises a~~ substitution at ~~position 194~~ position 194 ~~with is~~ is Ile.
48. (Currently amended) The cutinase variant of claim 39, wherein said ~~variant comprises a~~ substitution at position 194 ~~with is~~ is Lys or Leu, and wherein said variant further contains a substitution of the residue at position 219 with Gly.
49. (Currently amended) The cutinase variant of claim 39, wherein said variant ~~comprises~~ contains Asn as the substitution of the residue at position 194 ~~with Asn.~~
50. (Currently amended) The cutinase variant of claim 39, wherein said ~~variant comprises~~ the substitution of the residue at position 194 is substituted with Asn, Pro, or Ser, and wherein said variant further contains a substitution of the residue at position 219 with Gly.